

 **PALM INTRANET**Day : Monday  
Date: 5/7/2007  
Time: 15:34:52

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1	US 7211124 B2	20070501	Filter element, air cleaner, and methods	55/357	55/490; 55/492; 55/498; 55/500; 55/502; 55/521; 55/524; 55/DIG.31; 55/DIG.5; 95/273	Gieseke; Steven Scott et al.
1	US 7155331 B1	20061226	Method of prediction of NOx mass flow in exhaust	701/108	60/286; 60/301	Zhang; Wenzhong et al.
1	US 7052052 B2	20060530	Sealing gasket for a clamp	285/420	285/419; 285/915	Protas; Michael J. et al.
1	US 7001450 B2	20060221	Filter element, air cleaner, and methods	95/273	55/357; 55/490; 55/492; 55/498; 55/500; 55/502; 55/521; 55/DIG.31; 55/DIG.5	Gieseke; Steven Scott et al.
1	US 6892854 B2	20050517	Muffler with catalytic converter arrangement; and method	181/258	181/249; 181/255; 181/272; 60/302	Wagner; Wayne M. et al.
1	US 6860527 B2	20050301	Strap clamp	285/420	24/276; 24/279	Wagner; Wayne M. et al.
1	US 6843092 B2	20050118	Architectural panel arching device	72/173	72/166	Greenberg; Percy et al.
1	US 6796004 B2	20040928	Exhaust system clamp	24/279	285/419	Belisle; John I. et al.
1	US 6779339 B1	20040824	Method for NOx adsorber desulfation in a multi-path exhaust system	60/297	60/274; 60/286; 60/287; 60/291; 60/292; 60/295;	Laroo; Christopher A. et al.

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1	US 6746518 B2	20040608	Filter element, air cleaner, and methods	95/273	55/357; 55/492; 55/498; 55/500; 55/502; 55/521; 55/DIG.31	Gieseke; Steven Scott et al.
1	US 6634607 B2	20031021	Pipe clamp	248/74.3	24/279; 285/373; 285/419	Vogel; James E. et al.
1	US D475612 S	20030610	Exhaust system clamp	D8/396		Wagner; Wayne M. et al.
1	US 6550573 B2	20030422	Muffler with catalytic converter arrangement, and method	181/255	181/272; 60/299	Wagner; Wayne M. et al.
1	US 6547857 B2	20030415	Filter element, air cleaner, and methods	95/273	55/357; 55/492; 55/498; 55/500; 55/502; 55/521; 55/DIG.31	Gieseke; Steven Scott et al.
1	US 6508277 B1	20030121	Flexible pipe with compressed ends	138/135	138/109; 138/177	Imes; Julian A. et al.
1	US 6354398 B1	20020312	Mufflers for use with engine retarders; and methods	181/256	181/272	Angelo; Theodore G. et al.
1	US 6348084 B1	20020219	Filter element, air cleaner, and methods	95/273	55/357; 55/490; 55/492; 55/498; 55/500; 55/502; 55/521; 55/524; 55/DIG.31; 55/DIG.5	Gieseke; Steven Scott et al.
1	US D451790	20011211	Bent bolt clamp	D8/396		Wagner; Wayne M. et

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1	US 6311736 B1	20011106	Flexible hose and method for manufacturing	138/135	138/131; 138/136	Herman; John T. et al.
1	US 6305054 B1	20011023	Exhaust system clamp	24/276	24/279; 411/410	Imes; Julian A. et al.
1	US D444219 S	20010626	Centerpiece for filter element	D23/365		Gieseke; Steven Scott et al.
1	US D442538 S	20010522	Mounting arrangement for muffler	D12/223		Wagner; Wayne M. et al.
1	US 6234541 B1	20010522	U-bolt clamp for sealing lap joints	285/197	24/277; 285/199; 285/420	Wagner; Wayne M. et al.
1	US 6213146 B1	20010410	Valve assembly for preventing liquid ingestion and methods	137/544	137/388; 96/406	Risch; Daniel T. et al.
1	US 6209559 B1	20010403	Valve assembly for preventing liquid ingestion and methods	137/1	123/198E; 137/388	Risch; Daniel T. et al.
1	US D437402 S	20010206	Filter element with centerpiece	D23/365		Gieseke; Steven Scott et al.
1	US D437401 S	20010206	In-line air cleaner	D23/364		Ramos; Timothy M. et al.
1	US 6179890 B1	20010130	Air cleaner having sealing arrangement between media arrangement and housing	55/482	55/486; 55/502; 55/503; 55/521	Ramos; Timothy M. et al.
1	US D436028 S	20010109	U-bolt clamp	D8/396		Wagner; Wayne M. et al.
1	US D434360 S	20001128	Mounting arrangement for muffler	D12/223		Wagner; Wayne M. et al.
1	US 6148519 A	20001121	Apparatus for installing a packing material in a	29/890.08	29/446; 29/451	Stenersen; Eivind et al.

			muffler assembly; and methods thereof			
1	US 6123369 A	20000926	Pipe lap joint and methods	285/424	285/322	Wagner; Wayne M. et al.
1	US 6116659 A	20000912	Band clamp for sealing lap joints and method thereof	285/373	285/382; 285/420	Wagner; Wayne M.
1	US D428128 S	20000711	Conical filter	D23/365		Gillingham; Gary R. et al.
1	US 6082487 A	20000704	Mufflers for use with engine retarders; and methods	181/256	181/272; 181/282	Angelo; Theodore G. et al.
1	US 6048386 A	20000411	Integrated resonator and filter apparatus	96/384	181/231; 55/385.3; 60/322; 96/386; 96/388	Gillingham; Gary R. et al.
1	US 6009898 A	20000104	Valve assembly for preventing liquid ingestion and methods	137/388	123/198E; 137/202; 96/406	Risch; Daniel T. et al.
1	US 5902364 A	19990511	Conical filter	55/498	55/502; 55/503; 55/520; 55/521; 55/DIG.5	Tokar; Joseph C. et al.
1	US 5895574 A	19990420	Rolled liquid filter using fluted media	210/443	210/455; 210/456; 210/493.4; 210/497.1	Friedmann; Francis A. et al.
1	US 5880413 A	19990309	Assembly for mounting of a muffler; combination and method	181/211	181/243; 181/282	Wagner; Wayne M. et al.
1	US 5828013 A	19981027	Muffler with catalytic converter arrangement; and method	181/255	181/272; 60/299	Wagner; Wayne M. et al.
1	US	19981020	Conical filter	D23/365		Gillingham;

	D399944 S					Gary R. et al.
1	US 5820646 A	19981013	Inline filter apparatus	55/488	55/498; 55/510; 55/521; 55/523; 55/DIG.30	Gillingham; Gary R. et al.
1	US 5814219 A	19980929	Pleated filter having a planar sheet of randomly arranged filaments to maintain pleat spacing	210/493.3	210/493.5; 210/497.01; 210/505; 210/508; 55/497; 55/498; 55/500; 55/519; 55/521	Friedmann; Francis A. et al.
1	US 5792247 A	19980811	Integrated resonator and filter apparatus	96/386	181/231; 55/385.3; 55/DIG.21	Gillingham; Gary R. et al.
1	US D396098 S	19980714	Conical filter	D23/365		Gillingham; Gary R. et al.
1	US 5772883 A	19980630	Slanted inline filter	210/487	210/488; 210/493.1; 210/493.3; 210/494.1; 210/521; 55/500; 55/521; 55/DIG.12	Rothman; Jim C. et al.
1	US 5426269 A	19950620	Muffler with catalytic converter arrangement; and method	181/232	181/258; 181/264; 422/176; 60/299	Wagner; Wayne M. et al.
1	US 5400590 A	19950328	Filter cartridge arrangement	60/274	60/286; 60/300; 60/303	Wagner; Wayne M. et al.
1	US 5388400 A	19950214	Diesel engine exhaust regenerable filter system	60/274	60/286; 60/303	Hoppenstedt; Bruce B. et al.
1	US 5373733 A	19941220	Exhaust filter backpressure indicator	73/118.1	73/49.7	Fuchs; Ervin P. et al.
1	US	19941018	Muffler with	181/258	181/232;	Wagner;

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1	US 5342519 A	19940830	Fluid filter cartridge with replaceable filter element	210/232	210/440; 210/450; 210/452; 210/453; 210/DIG.17	Friedmann; Francis A. et al.
1	US 5293742 A	19940315	Trap apparatus with tubular filter element	60/288	55/466; 55/DIG.30; 60/303; 60/311	Gillingham; Gary R. et al.
1	US 5246472 A	19930921	Apparatus for filtering engine exhaust	96/380	55/429; 55/498; 55/510; 55/DIG.30; 60/311	Herman; John T. et al.
1	US 5246205 A	19930921	Valve assembly and use	251/334	251/61.4; 251/61.5; 251/86; 55/282; 60/286	Gillingham; Gary R. et al.
1	US 5224973 A	19930706	Filter cartridge for trap apparatus	55/282.3	219/201; 219/535; 338/208; 55/282; 55/DIG.10; 55/DIG.30	Hoppenstedt; Bruce B. et al.
1	US 5116083 A	19920526	Clamp for coupling and sealing pipe joints	285/23	285/148.26; 285/373; 285/420; 285/424	Gillingham; Gary R. et al.
1	US 5101095 A	19920331	Diesel engine gas filter with electrical heater	219/205	123/549; 210/184; 55/282; 55/DIG.30; 60/303	Wagner; Wayne M. et al.
1	US 5053603 A	19911001	Electrical resistance heater	219/205		Wagner; Wayne M. et al.
1	US 5053062 A	19911001	Ceramic foam prefilter for diesel exhaust filter system	55/282	392/485; 55/466; 55/523; 55/DIG.10; 55/DIG.30;	Barris; Marty A. et al.

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1	US 5024054 A	19910618	Engine exhaust system with sequential loading of multiple filters	60/274	60/286; 60/288; 60/311	Barris; Marty A. et al.
1	US 4986069 A	19910122	Engine exhaust particle trap captured mass sensor	60/274	60/286	Barris; Marty A. et al.
1	US 4969537 A	19901113	Muffler assembly and method of manufacture	181/255	181/264; 181/268; 181/272	Wagner; Wayne M. et al.
1	US 4939519 A	19900703	Apparatus for method and a high precision analog-to-digital converter	341/167	341/119; 341/166	Elbert; Hubert F.
1	US 4899540 A	19900213	Muffler apparatus with filter trap and method of use	60/274	55/282; 55/283; 55/466; 55/DIG.30; 60/286; 60/303	Wagner; Wayne M. et al.
1	US 4867768 A	19890919	Muffler apparatus with filter trap and method of use	96/386	181/231; 55/523; 55/DIG.30; 55/DIG.5; 60/311; 96/387; 96/388	Wagner; Wayne M. et al.
1	US 4851015 A	19890725	Muffler apparatus with filter trap and method of use	95/15	181/231; 29/520; 55/282.2; 55/283; 55/523; 55/DIG.10; 55/DIG.30; 55/DIG.5; 60/286; 60/313; 95/26; 95/279; 96/386;	Wagner; Wayne M. et al.



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1	US 4832661 A	19890523	Apparatus and method for maintaining alternator output above predetermined levels	474/69	474/113; 474/70	Wagner; Wayne M. et al.
1	US 4790574 A	19881213	Apparatus for coupling tubular members	285/419	285/420; D8/396	Wagner; Wayne M. et al.
1	US 4676111 A	19870630	Method and apparatus for sound testing mufflers	73/865.6	73/117; 73/646	Wagner; Wayne M. et al.
1	US 4637538 A	19870120	Staple remover	227/63	254/28	Wagner; Wayne M.
1	US 4632216 A	19861230	Muffler apparatus and method for making same	181/255	181/265; 181/272	Wagner; Wayne M. et al.
1	US 4580657 A	19860408	Integral fluted tube for sound suppression and exhaust ejection	181/255	181/252; 181/259; 181/272; 181/273	Schmeichel; Steven D. et al.
1	US 4558891 A	19851217	Clamp for exhaust system	285/322	24/276; 24/279; 285/420	Wagner; Wayne M. et al.
1	US 4368799 A	19830118	Straight-through flow muffler	181/255	181/272; 181/273	Wagner; Wayne M.
1	US 4359135 A	19821116	Muffler assembly	181/266	181/272; 181/273	Wagner; Wayne M. et al.
1	US 4267899 A	19810519	Muffler assembly	181/272	181/273	Wagner; Wayne M. et al.
1	US 4183122 A	19800115	U-bolt clamp assembly	24/277	29/509	Wagner; Wayne M.
1	US RE30042 E	19790710	Exhaust system connector seal	285/419		Hiemstra; John R. et al.
1	US 4113289	19780912	Exhaust system and muffler lap	285/322	285/382; 285/420	Wagner; Wayne M. et

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1	US 4023645 A	19770517	Method and apparatus for reducing aerodynamic whistle	181/276		Retka; Thomas J. et al.
1	US 3944265 A	19760316	Exhaust system connector seal	285/419	24/279; 285/373; 29/505; 29/525.02; 29/525.05	Hiemstra; John R. et al.
1	US 3712416 A	19730123	AIR INTAKE SILENCER	181/229	123/198E	Swanson; Ian N. et al.
1	US 3630030 A	19711228	LIQUID- ATTENUATED EXHAUST SYSTEM	60/274	181/261; 60/310; 95/198	Wagner; Wayne M.
1	US 3419892 A	19681231	Exhaust ejector [TEXT AVAILABLE IN USOCR DATABASE]	60/319	123/198R; 181/259; 55/290	WAGNER WAYNE M et al.